

SEQUENCE LISTING
#6

<110> Schlegel, Robert
Endege, Wilson
Monahan, John

<120> COMPOSITIONS, KITS, AND METHODS FOR IDENTIFICATION,
ASSESSMENT, PREVENTION, AND THERAPY OF HUMAN
PROSTATE CANCER

<130> MRI-007A

<140> US 09/768,827
<141> 2001-01-24

<150> US 60/178,525
<151> 2000-01-24

<150> US 60/183,245
<151> 2000-02-17

<150> US 60/190,139
<151> 2000-03-16

<150> US 60/208,126
<151> 2000-05-31

<150> US 60/219,705
<151> 2000-07-18

<150> US 60/255,160
<151> 2000-12-13

<160> 101

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<212> DNA
<213> Homo sapiens

<220>
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<222> (1)...(395)
<223> n = A,T,C or G

<400> 1
ctacttaggg cgaattggag ctccccgccc tggccggccga ggtacgcggg gagagtgttc 60
cagacagaag aaatagcaag tgccgagaag ctggcatcag aaaaacagag gggagattt 120
tgtggctgca gccgaggagg accaggaaga tctgcatgtt gggaaaggacc ttagtgataca 180
gaggtgagaa ataagaaaagg ctgctgactt taccatctga ggcacacat ctgctgaaat 240
ggagataatt aacatcacta gaaacagcaa gatgacaata taatgtctaa gtatgtacat 300
gttttgcac atttcagcc cctttaaatn tccacacaca caggaagcac aaaaggaagc 360
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<210> 2
<211> 237
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(237)
<223> n = A,T,C or G

<400> 2
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atgttctaca ttatcgtaa aatgttgaca aggtctcnag caaagactgg atctncantg 120
gntttaaaat acaatnntcc atttcggaaa ttganggaaa aagatcttn ncaanctgga 180
agagtcttct tgtaaatagg aatcacnnggg ctacacctgc tgacgacctt gggtttn 237

<210> 3
<211> 463
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(463)
<223> n = A,T,C or G

<400> 3
ttagggcgaa ttggagctcc ccgcgggtggc ggccgaggta ctatatggac accaacatgg 60
agcanaaaaat gagggcagca gtgtccaatc tcattccagg tgagaagttg cacagtgtcc 120
aataggtgca tacatctcct tagtaagtag ttgtgattaa caatgaaata gaaatgaaaa 180
atatatttt ttatttatgt gtattatatt tttcaagcag ctaataagtt ggttaggacat 240
aatatttaat tcgttgggaa cctaattatt tataaattga atggtagat atttctttg 300
gcctaagcca ccatgaaaaa atcactgagg cgctaaggaa aacatgaact aagaagccct 360
tctgagtctc tgtttctca actgttaagat gaanaaacct gctccacctt cctcttgcga 420
tttgtgaacg gcagttttag atactgcgca gaatggacct tat 463

<210> 4
<211> 434
<212> DNA
<213> Homo sapiens

<220>
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<222> (1)...(434)
<223> n = A,T,C or G

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atgatggag tggccacctg ctttcatatt ctgaagtcag agtgttccag acagaagaaaa 120
tagcaagtgc cgagaagctg gcatcagaaa aacagagggg agattttgtg ggctgcagcc 180
gagggagacc aggaagatct gcatggtggg aaggacctga tgatacagag gtgagaaaata 240
agaaaggctg ctgactttac catctgaggc cacacatctg ctgaaatggg gataattaac 300
atcaactagaa acagcaagat gacaatataa tgtctaanta gtgacatgtt tttgcacat 360
ttccagcccc tttaaatatc cacacacaca ggaagcacaa aaggaagcac agagatccct 420
gggagaaaatg cccg 434

<210> 5
<211> 332
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(332)
<223> n = A,T,C or G

<400> 5
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tgggtttccg tgaatcagca catcaattgc agcattgtgg ctaccagggg gtcaggatgc 120
ggncgggtgga gccctctggc ctttgtgtgg tagccgagga ctctgtgtca gctgaccgtt 180
ttccggnaaa cttcgtgcg agactcacat cttggaaatt caaatactca atanactctcg 240
aattcttagga atcttgagaa gaggcctgga ttaangattc anacatgggc cctnanatng 300
ntatggcatt gctggttcta ccaacgtgac ag 332

<210> 6
<211> 348
<212> DNA
<213> Homo sapiens

<400> 6
ccgggcaggc accagaacct cagcaaagga agcagacaca ggtcggagga agcctacata 60
gaccggcattt ccatggagta ttacaactgg gggcggttct cgaagcccc agaagatgtat 120
gatgccaatt cctacgagaa tgtgtcttgc tgcaagcaga aaaccacaga gacaggtgcc 180
cagcaggagg gcataggtgg cctctgcaga ggggacctca gcctgtcaact ggcctgtgaag 240
actggcccca cttctggct ctgtccccct gcctcccccgg aagaagatga ggaatctgag 300
gattatcaga actcagcatc catccatcag tggcacgagt ccaggaag 348

<210> 7
<211> 188
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(188)
<223> n = A,T,C or G

<400> 7
tttagggcgaa ttggagctcc cgcgggtggc ggccgaggta cttttttttt tttttttttt 60
ttttggacct tgggttatctt ctgcagggtca agccatcctg accactctga gaacttaccc 120
agggtgactc anctgtcaact ccaggtcaact cataagccca acggtagct ccacccgtgg 180
acagctgg 188

<210> 8
<211> 603
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(603)
<223> n = A,T,C or G

<400> 8
cgcgggtggcg gcccggccgg gcaggtaactt tttttttttt tttttttttt ttttttttaag 60
ggaacgtgaa ttttaatgag ggggcanacc gagggagggtgg tggctgcccgg gagatcagg 120
ccaggctgtg ctanatggcn cctggaaagggg gggtcacccca agtctccctg ctatcatttc 180
aggaggccga cccaaatctc cctgtgtca tttcaggagg ccgaattttt tcccgatccc 240
anagaagggtg tcaaaggctt gttagcant cttgtcgatg gtttccttggg tggcttggc 300
canctggtc atggcttctt gccccggctc tggctggctgg tccaccactt gctganctgc 360
cgctccggcc cgctnacacg gcttccttggg cggtcccccctc cacctgttgc ttcaggtcct 420
gcaagccctt gcttggcatg gtttcgggggt atctgtggag tcntcaagan canctggagc 480
cacnttggat cctnccaaa gtggcccccgg cgtacccctgg cccgtntaaa actatgtgg 540
atccccccgg cctgcangaa ttccatataca aagcttatng atacccggcg accctcgagg 600
ggg 603

<210> 9

<211> 429
<212> DNA
<213> Homo sapiens

<400> 9
ccgcgggtggc ggccgaggta cgcgggtca ttactacagg aaaaactgtt ctcttctgtg 60
gcacagagaa ccctgcttca aagcagaagt agcagttccg gagtccagct ggctaaaact 120
catcccagag gataatggca acccatgcct tagaaatcgc tgggctgtt cttgggtgtg 180
ttgaaatggt gggcacagtg gctgtcactg tcatgcctca gtggagagtg tcggccttca 240
ttgaaaacaa catcggtt tttgaaaact tctgggaagg actgtggatg aattgcgtga 300
ggcaggctaa catcaggatg cagttgcaa atctatgatt ccctgctggc tctttctccg 360
gacctacagg cagccagagg actgatgttg cgctgcttcc gtgatgtcct tcttggctt 420
catgatggc 429

<210> 10
<211> 338
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(338)
<223> n = A,T,C or G

<400> 10
cgctgatgtt ggccangcga gagggccacg ttctcctgag tgttcagaag ggtcttacag 60
acgtccaggg gggtcgtggc ggccgcggcg agggccccgg ccagccccc tgagatgatg 120
tggactgcg ggtttaggt ccgggtgggg ttgacctgct cctgcaggaa ctcataggtg 180
atgaagtgg a tggactggaa ggggatgttc atggtcagct gcgtgggtgta gctccggtag 240
aaggccccca acccctnggt cctccacacc gtccggatgc aactgattgc tgaccggtagc 300
tgcnagttgtt acctgcccgg gcggccgctc tagaacta 338

<210> 11
<211> 561
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(561)
<223> n = A,T,C or G

<400> 11
gccgcggggc aggtacaaac ttagaagaaa atnggaagat agaaacaaga tagaaaatga 60
aatatattgtc aagagttca gatagaaaat gaaaaacaag ctaagacaag tattggagaa 120
gtatagaaga tagaaaaata taaagccaa aattggataa aatagcactg aaaaaatgag 180
gaaattattg gtaaccaatt tattttaaaa gcccatcaat ttaatttctg gtggcaga 240
agttagaagg taaagcttga gaagatgagg gtgttacgg tagaccngaa ccaattttaga 300
agaatacttg aagctagaag gggaaatggg ttaaaaatca cataaaaag ctactaaaag 360
gactgggtgta attttaaaaa aaactaaggc agaaggctt tggaaagagt tagaagaatt 420
tggaaaggcct taaatatagt agctaattt gaaaaatgt gaaggacctt tcgtaaccgg 480
aagtnattt caagatnaaa gaagtaattt accaacctta atggttttg ccttggggc 540
tttgagttt aaagaattan t 561

<210> 12
<211> 367
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

<222> (1)...(367)

<223> n = A,T,C or G

<400> 12

gaatnggagc tcccccggtt ggccggccgan gnactcngga nagagtanaa acgtttccat 60
gttatttctg cagttgtnga cttaggctta tttgtaaaga agcatgctcc attgactgcc 120
atctctagtc ttgcagtggg tggtatataac ccataaaaaaag caaggcagttg tgatcacat 180
acacaatggn tatgatgnta accanatcan ctgttngtt gttcattcgt natatgttt 240
gtgatangga tgttgggagc acagcttat tctgcctgct cagacttaag tttagaccctt 300
atctttata ttatgtcatg aaaaaagtct cctaaaaatt gtgaaactag cctcttgatg 360
agtgatg 367

<210> 13

<211> 464

<212> DNA

<213> Homo sapiens

<400> 13

ccgcgggtggc ggcccggaggt acatggccac aagaggagcc ctggccaaca gttcaggct 60
ggccatcttggc ggctgggctt ccctgggctt gcagtgggg gggtcaggat tcaaattctg 120
ggtgacaatt tcagtagcac caagaccaga agacagttag gccacgctgg ggagtgggg 180
agtgcttgta tggggatgc atggaggggag gctgcagttt gtggaggaga aagagaggct 240
gttgtggctt ggttcttaag acactcaagg ggactcaag ggtcggctcc agccatggac 300
actatctaag gctgctcaga ggagaatgtt ggaggaggg aagaggaagt gaaatgggt 360
gagaacatcc ttacccttat aaataaaacta ttacacact ttaagaaaag gagagccggc 420
tctcagtcggc gcttaccttc ccggccggc ccgtctaga acta 464

<210> 14

<211> 519

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(519)

<223> n = A,T,C or G

<400> 14

ccgcgggtggc ggccggaggta cgccggggacc tcagcccaac aattcgtttgc gacatgtga 60
acaccccttgc cttgtatgat ttccaggatg tggatatta tgcagagcat tcagagcaaa 120
tactctctctt ccggcgctt aatccgaaca attgctgcca tccgttccctt cccacatgtat 180
aatgttagagg acctcatcag agggggagca gatgtgaact gcactcatgg cacactgaag 240
cccttgcact gtgcctgtat ggtgtcagat gctgactgtg tggagttact tctggaaaaaa 300
ggagccggagg tgaatggccct ggatgggtat aaccgaaca gcccctccact atgcancaga 360
gaaagatgag gcttgggtgg aggtcctatt ggatgtatggt gcaaaaccca atgctttgg 420
tggcaacaga gataccccac ttcaactgggt agcccttaag aacaatgtt agtgtgtgcg 480
ggctctccata gagagccggc cctctgtcaa tgccctgg 519

<210> 15

<211> 422

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(422)

<223> n = A,T,C or G

<400> 15

aaatccggcg aatngtttctt ncaccgggtt ggccggncgcc cggggcaggtt cnccgggtatg 60
ctgcctggac acacgcagat ttntctgtcta ntcacacaca cacgcagaca tgctgtccgg 120

acacacacac gcatgcacag atatgctgtc cgAACACACA cacgcacgca natatgcttg 180
cctggacaca cacacagata atgctgcctc aacactcaca cacgtgcaga tattgcctgg 240
acacacacat gtgcacagat atgctgtctg gacatgcaca caccgtgcag atatgctgtc 300
cggatacaca cgcacgcaca catgcagata tgctgcctgg gcacacactt tcggacacac 360
atgcacacac aggtgcagat attgctgcct ggacacacgc agactgnacg tgctttggg 420
ag 422

<210> 16
<211> 360
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(360)
<223> n = A,T,C or G

<400> 16
aggagtgcag aaccctgtan cccgctgcat catgtgctgt ttcaagnngct gcctctggtg 60
tctggaaaaa tttatcaagt tcctaaaccn caatgcatac atcatgatcg ccatctncgg 120
gaagaatttn tgtgtctcag ccaaaaacgc gttcatgctn ctcatgcgaa acattgtca 180
ggnggtcgtc ctggacaaag tcacagacct gctgntgttc ttggaaagc tgctggtggt 240
cgaggcgtg ggggtcctgt cttttttt tttctccggc cgcatnccgg ggctgggata 300
aagacttaa nagccccac cttaactatt actggctgcc ccatcatgac cctncantcc 360

<210> 17
<211> 428
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(428)
<223> n = A,T,C or G

<400> 17
ccccgggca ggtacattct catcattagg attgggtgtt gctgtccttg cacaactgg 60
taaggaaaaa tgaattattc tgtaattct gaagaatcca aatcctgtct ctataaaatg 120
cagaacagaa gggggcaaaa ggtgggtgg agcatcaaga gagaaaaaaag gagaaaatta 180
tttacagaaa ataggagaca ngaggaggtg tccgcaagaa aagacttcat tgtcacttct 240
tcttgcggc cctcttggca ctggactttt ctgggtttt cactgggttgc ctttttttg 300
gcttggatgc ctttgaccgg ctggctttt acagtcttgg gtttttttgg ctttcttggg 360
cgtggcagcc aagcttcttc tgcccttct tgaccgggg tggcttngg ttttcttgg 420
nttggggg 428

<210> 18
<211> 491
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(491)
<223> n = A,T,C or G

<400> 18
ggggcggcc gaggtacctc aaaagtgggg aaatccccat ataactgang acgaaggcag 60
ttcagaagtt cattgatttgc ccctaagggtt cctcaatttgc caaacgtcag gccaatgatc 120
caaccccaagg tatgtttggc agtgaaggac cagttgagtc atagctgcaa gtaaccaccc 180
tgcagtggtc cctatcttgg ccgttagctt acattgacat ttaacactca aatttactca 240

gtaacaccag ctatcatgtt ttccactaaa actccacagc attctggcaa cttttctatt 300
tttagagcaat aaagtaaatt gtagcatcc ctttgacata taaatatttc tacaatagt 360
aattctctag ccattcattt ggagtattt aaactcaaca ttcatagcac attttatgg 420
gacaaagaac ttatgttcag aacacaaaaa ataagtcgt a cctgcccggg cgggcggct 480
tngaactagt g 491

<210> 19
<211> 114
<212> DNA
<213> Homo sapiens

<400> 19
acaaaaacca atctacctga tgaaaactcc gttcccttct cgccagaaac ataaaatg 60
atggagctac ggccaccgct gccgagacaa aatggcgccg acccccgct acct 114

<210> 20
<211> 405
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(405)
<223> n = A,T,C or G

<400> 20
gagctcnccg cggtggcgcc cgccccggca ggtactttt tttttctcc ggtcgcatcc 60
cggggctggg taaagacttt aagagcccc acctcaacta ttactggctg cccatcatga 120
cctccatcct gggggctat gtcatgcga gcggctttt tcagcggttt tcggcatgtg 180
tgtggacacg cccttcctct gtttctgga agacctggag cggaaacaacg gctccctgga 240
ccggccctac tacatgtcca agagccttct aaagattctg ggcaagaaga acgaggcgcc 300
cccgagacaac aagaagagga aggaagtgac agctccggcc ctgatccagg actgcacccc 360
accccccaccc tccagccatt caaccttact tcgccttaca gggtc 405

<210> 21
<211> 530
<212> DNA
<213> Homo sapiens

<400> 21
ctcactatacg ggcgaattgg gagctccccg cggtggcgcc cccggccggc aggtactata 60
tggacaccaa catggagcg aaaatgaggg cagcagtgtc caatctcatt ccaggtgaga 120
agttgcacag tgtccaatag gtgcatacat ctccttagta agtagttgtg attaacaatg 180
aaatagaaat gaaaaatata ttttttatt tatgtgtatt atattttca agcagcta 240
aagttggtag gacataatat ttaattcggtt ggggacctaa ttatttataa attgaatgg 300
tagatatttc ttttgccta agccaccatg aaaaaatcac tgaggcgcta agggaaacat 360
gaactaagaa gcccttctga gtctctgtt tctcaactgt aagatgaaga aacctactcc 420
accttcctct tgcgattgtt gaacggcagt tgagatactg cgcagaatgg gaccttattg 480
atggcctacc caacatccat tctctactcc ctctactctg atggcaccgg 530

<210> 22
<211> 195
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(195)
<223> n = A,T,C or G

<400> 22

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ccgcgggtggc ggccgaggtt cgccgggttt tcagggtcgt aggacgccgt tgggcaccac 60  
gctcgagaaa ggacaggaca atggcggcct tagggtcccc gtcccacact tttcgaggac 120  
ttctgcggga gttgcgtac ctgagcgcgg ccaccggccg ctctagaact aagtggatcc 180  
cccccqcttq canga 195
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<210> 23
<211> 198
<212> DNA
<213> *Homo sapiens*

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<220>
<221> misc_feature
<222> (1)...(198)
<223> n = A, T, C or G
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<400> 23
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gcgcgcagac actgacacctc aggcgcctngg ctccagcgcc atggcgcctt ccaggaagtt 120
cttcgttggg gaaaactgga agatgaacgg acggaagcag antctggggg agctcatcgg 180
cactctnaac qcggccaa 198

<210> 24
<211> 620
<212> DNA
<213> *Homo sapiens*

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<220>
<221> misc_feature
<222> (1)...(620)
<223> n = A,T,C or G
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<400> 24
ccaccgcgggt ggcggccgag gtacagtggc acctggaaaa aggcacctgg aaggtttcca 60
tgtggcccaag cccagcatgg aagcagggtg ggaactctgc tgtgtcgcca ggcgtcactc 120
tactcagatg gctttttgaa agccctacca tgtctgtgtc aggccgtgtc tgcttcacat 180
cctacagctg ccttaggaaag gccggccacg ctcccctgtcc acacactccc tgtccacaca 240
ctcccctgtcc acacactccc tgtccacaac tgcagccccgg ccctctgcct atgggcaccc 300
aatccaagca gctgctccac ctttqtttgg catggtgatt tgtgtttttt ctcttggcgc 360
ttatgtgtgt gggcttggga cgaagtgtctg gtatgcactt aggaccttct tgatagctcc 420
ctgcactttg gaacacggag caaatgaaaa aagggtcggg gcttgcctc caccttggac 480
tttggaaagaag cccacattgg agangtgaag gaccccatgg tggctctagt gggaaaatac 540
gttagcctca anctnaggan ggatgaggcc aaccccaana gggagacctt aattgatagg 600
qqatcanqct aaaaaaaatqg 620
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<210> 25
<211> 349
<212> DNA
<213> *Homo sapiens*

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<400> 25
aggtaactcgc gctgttcttc tgttatcatc cagggttcgt cggggtaact gctgttatcc 60
tgttagtccc tctccactga aaaagaccgg ataagggaaag cctgatgccg aaggggcttg 120
gttcctggc cccctgatga ggatccctcg ggctggacaa ggggctgcct agcttcataa 180
ggtgctggat gcacatctgttc tgcgttgctc cgcagttgc tgttagccatg gctcaaggc 240
accctctggt aatgaggcg  ggaagaagga ggggaggcg  ggggtgacat cgtgggagac 300
tgtatttcct qctqtttatac ctcatcqtc  attctttqa aggaatttt 349
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<210> 26
<211> 434
<212> DNA
<213> *Homo sapiens*

<220>
<221> misc_feature
<222> (1)...(434)
<223> n = A,T,C or G

<400> 26
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cgcttatccg ttat tagcc ggaccaagat tgcacagcta aagtctggca gagactccac 120
ggtagtactg tcctcaactgg gcctgtccac agtgcgagcg actcctgagg ggaacagcgc 180
cgaggttcag gagtccaagc acaaagcggt ctttacatt ccaacctgtt gcctgccagc 240
cccttctgga ttactgtatag aaaatcatgc aaaacctccc aacccttcta aggacaagac 300
tactgtggat tcaagtgc ttatgactat ttatgcgtt actgtgagaa tagggagcag 360
ngccatggga catttcttagg tgttagagaaa gaagaaactg caatggaaaa atttgtatga 420
tttccattta ttcc 434

<210> 27
<211> 480
<212> DNA
<213> Homo sapiens

<400> 27
ccgcgggtggc ggccgaggta cagtggtaa tttgtcacaa ctgactgagg catcacaaca 60
acagcagcag tcaccactac aagaacaagc acagactta cagcagcaga tttcatcaaa 120
tattttcca tcaccaaata gtaacaacat gcctgaaatt caaggagcca catttcgcc 180
ttcaaccaca ggctactttt atttcacaaac acagcaggag gcacaatgaa ccaactgcag 240
aattctcctg gctcatctca gcagacatca ggaatgttct tatttggcat taaaataac 300
tgtagtcagc tttaacctc tggaccagct acattgcctg atcagttgat ggcataagt 360
cagccaggcc aaccacaaaaa cgagggccag ccacctgtga caacacttct ttctcagcaa 420
atgccagaga attctccact ggcattcttctt ataaacacca accagaacat cgaaaagatt 480

<210> 28
<211> 472
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(472)
<223> n = A,T,C or G

<400> 28
ctacttaggg cgaattggag ctccccggcgg tggcggccgc ccgggcaggt actctggtca 60
tcttcgttcg tttggctgtg caaggtgtt actatttca cttcccatat cacaaggta 120
gtccacagga ggagctggg gatcttgcattatgagga ctgggtggct ttccaggtag 180
gctggatcct nttagattag gagggtctca gtaagaacag gatcaatgca ataaaccatcc 240
aggctaccaa gatnattgtt acactgtatgc cttatnacc agagggtccc ggttaattntc 300
gaanacactc tgtgtctgtg cagttatgatt gggactgccc tancanattt ntcaagtcttc 360
tcantgcattt gtttcatgag agcaaaacac attnacaggg atcaaatcc accttcttgc 420
ccattattac ccagcttggaa ttttacttg gaccttttt taaaatcccn cc 472

<210> 29
<211> 449
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(449)
<223> n = A,T,C or G

<400> 29
ccgcgggtgg cggccgaggactgcgtggc cgccgcgtgt tttgtggcct gggccgcaaa 60
ccgggccacgttggtagacaatggtagga ccgtagaagc ggatgtgggg 120
caggcaagct gagtacgcct gggcaataacc atccacacacct gagcagaagg gtttgtggg 180
gttgaagttt atggcaaact catggagac ctccagtct ggggttaact gggccccgaa 240
tcccagagct gaaaaacatct tatcaactgtc gtatgcctga atgatctgcc caacagccca 300
gatggccgac agatattcgt ttgtgcccat agggttgata tantgcaaag aggaagggtc 360
gaggggattc ccgttgagg ctgtaaagtc tattccaacg gtgaacatga gctggcagcc 420
tcccaggac tagtcaagga aggagtagt 449

<210> 30
<211> 400
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(400)
<223> n = A,T,C or G

<400> 30
ccgcgggtggc ggccgaggctc tgaactgcgg ggtctctatc gcactgctag gggttctgct 60
gctgggtgcg ggcgcgcctgc cgcgcggggc agaagcttt gagattgctc tgccacgaga 120
aagcaacatt acagttctca taaagctgg gaccccgact ctgctggcaa aaccctgtta 180
catcgcttt tctaaaagac atataaccat gtttccatc aagtctggag aaagaatagt 240
cttacccctt agtgcgcaga gtcctgagaa tcactttgtc atanagatcc agaaaaatat 300
tgactgtatg tcagggccat gtccttttg ggaggttcag cttcagccct cgacatcggt 360
gttgccttacc ctcaacagaa ctttcatctg ggtatgtcaaa 400

<210> 31
<211> 122
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(122)
<223> n = A,T,C or G

<400> 31
tgatcttcag ctgctcctga actttggcac tgtaagggtt ctctgtatcg tatgggtgt 60
acaaagcttt taaaataacc tntcctccag tgcatggaaa aggactggag tatttatnaa 120
gt 122

<210> 32
<211> 575
<212> DNA
<213> Homo sapiens

<400> 32
acttgtgagc ctggactggc ttccccggcc tcctacatga accccttccc ggtgctccat 60
ctcatcgagg acttgaggct ggccttggag atgctggagc ttccctcaagga gagagcagcc 120
ctcctgagcc agatccctgg cccaacagct gcctacataa aggaatggt tgaagagagc 180
ttgtcccaagg taagccacca cagtgctgtc agtaatgaaa cctaccagga acgcttggca 240
cgctctagaag gggataagga gtcctcata ttgcagggtga gtgtcctcac agaccaagta 300
gaagcccaagg gagaaaagat tcgagacctg gaagtgtgtc tggaggaca ccaggtgaaa 360
ctcaatgctg ctgaagagat gcttcaacag gagctgctaa gcccacatc tcttgagacc 420
cagaagctcg atctgatgac tgaagtgtct gagctgaagc tcaagctgg tggcatggag 480
aaggagcaga gagagcagga ggagaagcag agaaaagcag aggagttact gcaagagctc 540
aggccccctca aaatcaaagt ggaagagtt ggaaa 575

<210> 33
<211> 422
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(422)
<223> n = A,T,C or G

<400> 33
gggagtggag cggtgaacac gtcaggggtg gggggcgcag gtcaagcttt caccagttt 60
taattctttg atgggtaaa tttgagcaat tttctcgact tgtcgacatt cgttattaac 120
tgancaggaa tcagganagg aaccgcgtcc tctccacaca gcccagcana gagcctacga 180
ctagatttgc atcttacgt cctgcgcgga ggctgctaca cacatgcana agtcatgctg 240
gtggcctgga cattgaaggg agagaagtgg atttggaga catttaggag gcacccgaaag 300
cgaaggaagc tcctgctcct cctaaagccg aagccaaagc aaaggctta aaggccaaga 360
aggcagtgtt gaaagggtgtc cgccagccaca cgcaaaaaag aggatccgca tgtcactcac 420
ct 422

<210> 34
<211> 702
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(702)
<223> n = A,T,C or G

<400> 34
accgcggggg cggccgnggn ttcngectgg aggagctcag ggtggccggc attcacaaga 60
aggtgtggcccg gaccatcgcc atttctgtgg atccgaggag gcggaaacaag tccacggagt 120
ccctgcagac caacgtgcag cggctgaagg agtaccacaa agggacccaa attcagcggt 180
ctgtgcctac aaacttcatt aataactgct tgcatgttgg cagctatctg gtcaacttgc 240
atatccaaatg ttgctatccc ggtctggaga aagttctccc ttcttcatc taccttaatt 300
tcatgtccat tttaaataa ttcaaaccatt ttggggatgt cacggccaat ggaatttcga 360
gaaagctttg gatattttt attcagtttc ttccatcatt gattaaggc attcatttgc 420
tctggAACAG ctacgtaaaaa gtctgcaaca atttcattcat cccaaatctt ctgtatcaga 480
ctaagtgcct cctgcaaatg cagctccatt ttctccgct attttgcatt ctgtatgcatt 540
ctctgtaaat acagcaactt tattgatttc cgaagccaat gggtatggca aactaanaac 600
actggtaaat ggcttcacgt ttttcttnn ttccagtgcc atatncagtg tcaaaaatcaa 660
anaaaaacact ttgcttggc ctatgtttaaag ccaanaattt ga 702

<210> 35
<211> 597
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(597)
<223> n = A,T,C or G

<400> 35
acatcttcca ggacaaggta aactctgaca tgcaacttagt atgtgcagat cccggccccct 60
gccacccagc ctcatgcaag tcatacccgaa catgacccatc acgaccgcaa tgcaaggagg 120
ggaagaaaatg cacagcaactg atgaggacag ctgcagaggt ggcagtgtgt ggacacagga 180
agtttggcc ccctccctgc cccagcttc ctatggccaga attgtgtttg gcagtaattt 240
tctgtttaaa aaaataaaaaa ggagaggaag cgttcaccgc cacaatcat aaaatggaca 300

tgactgtgga gtcttacagt tcagggttct ttcattcacg tcccttcctg tctcggctcg 360
cgtctttac cacatcaata ggactttta tgctccggg ttaattttc actccagtc 420
gtcctgttgc agggaccgga gctgatggga gctgcttctc cccatgcctc actggtcca 480
gatcanggct tcagggacag atgatgagtc tcaaacgagc cancaggggt tctttgggt 540
ataaaatgggc aattcgnctt gtcttaagnnc tcatgaccc anccgtgggt tttggat 597

<210> 36

<211> 457

<212> DNA

<213> Homo sapiens

<400> 36

tagggcgaat tggagctccc cgccgtggcg gccgaggtac ctgagccagg aggaggccca 60
ggccgtggac caggagctat ttaacgaata ccagttcagc gtggaccaac ttatgaaact 120
ggccgggctg agctgtgcta cagccatcgc caaggcatat ccccccacgt ccatgtccag 180
gagccccctt actgtcttgg tcatctgtgg cccggggaaat aatggaggag atggtctgg 240
ctgtgctcga caccctaaac tctttggcta cgagccaacc atctattacc cccaaaaggcc 300
taacaagccc ctcttcactg cattggtgac ccagtgtcag aaaatggaca tcccttcct 360
tggggaaatg cccgcagagc ccatgacgat tcatgaaactg ttgagctgggt ggtggatgcc 420
atctttggct tcagcttcaa gggcgatgtt cgggaac 457

<210> 37

<211> 433

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(433)

<223> n = A,T,C or G

<400> 37

agtacttcta gaattaatta aggccgggcgc ctgcantccc agntacncgg naggctgagg 60
caggagaatg gcgtgaaccc angaggcgga gcttgcagtq agctgagatc gcccactgc 120
nctccagcct gggcaacaga gtgagactcc gtcccgctaa naaatnanaa aanaanaann 180
ccngcccncc cnctggngn nttcccanat cccnntttt tgaattttt tncccccccc 240
nnnttgnccct gttttctact agtcatgatc tggtaatata caattttgcc agtagccagt 300
ttgttttat tgggtttct aaccataaga gatcattaaa ggcaaagcct gtatgacgct 360
gtacacacac aaaaaatgg tcaccgcagg ccatactacc aatgaaatgg tagttaaaca 420
aatcttctgg tca 433

<210> 38

<211> 420

<212> DNA

<213> Homo sapiens

<400> 38

agtacttcta gaattaatta aggccgggac accactttc aaaggacttc ttggtttcag 60
cataacctaa gacagggaaat tgggagccat catatgtcac agtgttcaga attcaagcat 120
attnaaggc attttctttt attctcaaaat ttcatgttcc attttgaattt gagaaggctt 180
tacatttagc tgacaaagtg cttatagaat ttcttaacaa ctgaaccatt caaaaggatt 240
tttttgtttt aaaaactggat ttcaatgtaa gcaaataag aaaaaatat agatttcatt 300
tccatagctt cttatccctg tattgaggtt ataaattgtt ttactgacaa ttttcctt 360
ttctacacta aaacaatatg tgatatatatt cccctcttga agaggcaatt cattaaactc 420

<210> 39

<211> 86

<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(86)
<223> n = A,T,C or G

<400> 39
agtacttcta gaattaatta aaacagacaa ttcttaaaaa aaaaaaaaaaaa aaaaaaaaaaaa 60
aaaaaaaaaaa aaaaaaaaaaaa aaaaan 86

<210> 40
<211> 428
<212> DNA
<213> Homo sapiens

<400> 40
agtacttcta gaattaatta aggcggggag ttttatctat tctttacatt ggatgcaaaa 60
tgttattactc aagaagaggc attcggtatc gaaccataga tgaacatgat gccatcattt 120
aaggaaatcc atggaccaag gatggaatac agattgatgc tgccctatca attaattttg 180
gttattaaat agttttaaac aatattctt ttttggaaat agtataaaca ggcattgcat 240
ataatgtaca gtgttattacg taaatatgtt aagattctt aaggttaacaa gggtttgggt 300
tttggaaataa acatctggat cttatagacc gttcatacaa tggttttagc aagttcatag 360
taagacaaac aagtccatac tttttttttt ttggctgggg tggggcatt ggtcacatat 420
gaccagta 428

<210> 41
<211> 246
<212> DNA
<213> Homo sapiens

<400> 41
agtacttcta gaattaatta aggcgggtcc ctgcttgc tatgaactgc tcagagctcc 60
tgtcagtcca gctggcctt ctgggttctg gcaccattt ctagccattc tctttgtatt 120
ttaaaaggac gttatgaaag ggcttagacc aaaataaattc ataatgttac ttgagccacc 180
ttatatagtt gcttggagag tctatgttgc tgcattaaaa atgttttagaa 240
atgctt 246

<210> 42
<211> 153
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(153)
<223> n = A,T,C or G

<400> 42
agtacttcta gaattaatta aggcggggc tagtcctta tttatctaaa taaagttta 60
ctggaaaaaaa aaaaaaaaaaaa aaaaaaaaaaaa aaaaaaaaaaaa aaaaaaaaaaaa 120
aaaaaaaaant taaaaaaaaaaa aaaaaaaaaaaa aaa 153

<210> 43
<211> 160
<212> DNA
<213> Homo sapiens

<400> 43
agtacttcta gaattaatta aggcggggga aagtttagagg aactgaaagt ttgggaatag 60
gctgaccaca tattatgccat gtgaccagta tgacaggaga tggggccctg ctgccagtca 120
tctccactga ataaaaaaaaaaa aaaaaaaaaaaa aaaaaaaaaaaa 160

<210> 44
<211> 89
<212> DNA
<213> Homo sapiens

<400> 44
agtacttcta gaattaatta aggccgtcgg taaaaaaaaaaaaaaa aaaaaaaaaaaaaaaa aaaaaaaaaaaaaaaa 60
aaaaaaaaaaaaaaa aaaaaaaaaaaaaaaa aaaaaaaaaaaaaaaa 89

<210> 45
<211> 241
<212> DNA
<213> Homo sapiens

<400> 45
agtacttcta gaattaatta aggccgggtcc ctgcttgc tatgaactgc tcagagctcc 60
tgtcagtcca gctgggcctt ctgggttctg gcaccatttc gtagccattc tctttgtatt 120
ttaaaaggac gttatgaaag ggcttagacc aaaataaatac ataatgttac ttgagccacc 180
ttatatacgct gcttgagag tctgttagt tcttctgca tgtattaaaa atgttttagaa 240
a 241

<210> 46
<211> 263
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(263)
<223> n = A,T,C or G

<400> 46
gccctggaa acgattgtga acgcntgaat gaattgatga ctaanatccg ctgcgggggt 60
cctacagcgc anatgtaat gcccgttctg actggctgg aacggcacct tagcaagata 120
cttaaaaggc gcctctgtg tgccacntgc actccacccct gggcaacaga gcaaananccc 180
catctcaaaa ataaataaat atatataaaa aataaaaagc tatttctagt ttnatttcac 240
tataaagttt tgcttttatt aaa 263

<210> 47
<211> 277
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(277)
<223> n = A,T,C or G

<400> 47
agtacttcta gaattaatta aggccggcgg atcatgaggt caggagttcg agaccagcct 60
ggccaacatg gtgaaaactcc gtgtctacta aaaataaaaa aattggctgg gccgtgggtgg 120
ttcgacactg tagtcccagc tactgggggg gctgaggcag gagaatggct tgaacccggg 180
aggtagagg ttgcagttag ccaagattgt gccactgcac tccagcctgg gcgactgagc 240
aagactgtct aaaaaaaaaaaa aaaaataaat aaagnaa 277

<210> 48
<211> 393
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<222> (1)...(393)
<223> n = A,T,C or G

<400> 48
gccgtcggtt tacaccccg aanaancnat ancnatgatn gntgccngtc ccnctcnnna 60
nagnaataat aaaantaatt aangcgggtg attaaatttc agtccattat gatttcctt 120
tctcacataa ttacttttt cttttagac ttataagcta gcaattacag attaactac 180
agctatcagc atggacaaaa atagttatac agcatttat aacagagcat tatgttacac 240
caagataagg gaactcaaa tggcattaac agattatgga attgtgctgc ttcttgatgc 300
tacagaaaact gttnaactaa ataccttct taatcgtgga ctcatctacg tagaactagg 360
ccagtatggc tttgcactag aggatttaa aac 393

<210> 49
<211> 228
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(228)
<223> n = A,T,C or G

<400> 49
ctncgangnt acttnctaga attaattaa gggcgggnt agancaaaaa aaaataaaac 60
aacaacaaaa aaaaacnaaa aatanaaaaa aaaaaaanaa nnanncaan nnaaaantaa 120
aaatnnnta tttatTTaa antaaaaant atactnaact aattattna attaaagaaa 180
aaataantaa aaaaattnat aaanaataaa nttaaataa aaaatatt 228

<210> 50
<211> 158
<212> DNA
<213> Homo sapiens

<400> 50
agtacttcta gaattaatta aggccccggagg aggaggctct caataaataa tcgtgtacc 60
ttaaaaaaaaaaaaaaa aaaaaaaaaaaa aaaaaaaaaaaa aaaaaaaaaaaa aaaaaaaaaaaa 120
aaaaaaaaaaa aaaaaaaaaaaa aaaaaaaaaaaa aaaaaaaaaaaa 158

<210> 51
<211> 112
<212> DNA
<213> Homo sapiens

<400> 51
agtacttcta gaattaatta aggccccggcaa taaaagttgt catgggttgt aaaaaaaaaaa 60
aaaaaaaaaaa aaaaaaaaaaaa aaaaaaaaaaaa aaaaaaaaaaaa aa 112

<210> 52
<211> 345
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(345)
<223> n = A,T,C or G

<400> 52
tgggtgccgg gccccccctc gagagtactt ctagaattaa ttaaggcggg agaaaaaggaa 60
aagacattcc agacaaaaag actaacttgt cagaaagccc tgtggcggaa gggagcttt 120

ccaatatgaa gaactgagcc tggagagatg ggatgagggg gagtgtcgaa ccttttaggc 180
ttttaagg agtttggtt ttctccta atgcaatggga tatcttccaa ggaatctcaa 240
tcaaaaaggga gagatggctc cgattggaat gtcatccctg gctgaagagt agaggaagca 300
aaaaaaaaaaaa aaaaaaaaaa annnnnnnnn cccnntnttt tttt 345

<210> 53
<211> 549
<212> DNA
<213> Homo sapiens

<400> 53
cccttagcgt ggtcgccggcc gaggtacttg gtggaccacc atcacaccct cctgtgcaat 60
ggtattggc ttgcctggct gattcatgtg ggagagtcct tttatgccat agatttgtc 120
aagcataaaag gcatcacaag tggtcgggct cagctactct gttccctaca gactttcttc 180
tttggatag cgtctctcac catcttgatt gcttacaaac ggaagcgcca aaaacaaact 240
tgaagttgtc tgaaagcttg ctctacactt ttacattcat cttccaccctt tttttgtgg 300
ggtagaggag gtgcagtaat ttactcagtg atctttctac tttctagaaa ctgtccttca 360
aagctcttta agacccttc gttagtcgt ttttcttctt atatgctctg gttgagctt 420
aatagaccag ttgttactta agaaagaaac agagaaagat tttagcttt caatcctatt 480
tgcagagga cttcagctac cttcttacag tcttggctg tttggtacc tgcccgccg 540
gccgctcga 549

<210> 54
<211> 528
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(528)
<223> n = A,T,C or G

<400> 54
gatatctgca gaattcgccc ttagcgtggt cgcggccgag gtacataaaag cagattcaag 60
ggtaaaaata aaaacagaat ttggaggtgt ggtcaaataa ggtcacacaga ttccagaacc 120
ctcagagggc ctgctggccc tctccagaca ttctgtgtcc gtggtgccagg agctgggccc 180
gtccctaaca gctccgcact gccttantgc agtgggtctc acagtttcag gaactactag 240
gtgaagtgtc tggctcaagt ctgccaagtg ttttcaactcc atcgtcagaa gtggagact 300
atccctaggt tcgattccca tgaaatattt tatgatttcc atcctctntg cccgctcttc 360
caaataaggc cctgtgatgc caacgaaggg ggcattgggg agggtctaag gctctcatta 420
anggcctaatt tctgtgtggg atatcaacac atgacagaca cttgactgca acattcaaga 480
catttaaggc agtgggttca ttaatgact actttccaa aataaata 528

<210> 55
<211> 731
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(731)
<223> n = A,T,C or G

<400> 55
cccttagcgt ggtcgccggcc gaggtacctc attagtaatt gttttgtgtt ttcatttttt 60
tctaatgtct cccctctacc agtcacactg agataacaga atgaaaatgg aaggacggcc 120
agatttctcc ttgtctctc gtcattctc tctgaagtct agtttaccca ttttggggac 180
ccattatagg caataaacac agtcccaaaa gcatttggac agtttctgt tttgttttag 240
aatggntttc cttttctta gcctttctc gcaaaaggct cactcagtc cttgcttgct 300
caatggactg ggctccagg gcctangctg cttcttttc catgtcccac ccattgagccc 360
tccactggac agtttanta gcttggccct tcattctggc gctgtgttct ttctctggga 420

aaatcaatac ctcttacctt ctnntgcatg caaagatctt aaaggattgt caaactttca 480
aaacgttaca agnagaaccn nccannaagg tcctataaaa tgccagtaag tgaccctnt 540
caagctgtca aggctttaa attaggantt tggggattta aatgcttgc nttttttaa 600
agggaaanaa ataagagttg ctnnnnttta aaaaatgcaa tgttttta nccaatttaa 660
aatttnnccc caaactttt taaaaagna aaaaaana ccnctttgg gagancggna 720
aaaaaaaaa a 731

<210> 56
<211> 514
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(514)
<223> n = A,T,C or G

<400> 56
cccttagcgt ggtcgccggcc gaggtacaag atgtgcattgc agtccaaggc catgaacgag 60
gcatcccacg gccagctggg catgctggg ttcaggcacg agatagaggg tcacccctcg 120
aaacagaagc agaagacaag tagcaaaaaa acatgaactc ccagagaagg attgtggag 180
acacttttc ttcccttttcaattactga aagtggctgc aacagagaaa agacttccat 240
aaaggacgac aaaagaattt gactgatggg tcagagatga gaaagctcc gatttctctc 300
tggggctt ttacacag aaatcaaat ctccgctttc cctgcaaaag taaccagtt 360
gcaccctgtg aagtgtctga caaaggcaga atgctgtga gattataagc ctaatggtgt 420
ggagggtttt atgggttttcaatacactn agacctgtatg gttttgtgn gctcattgaa 480
aatattcatg aatttaaga gcagttttt gtna 514

<210> 57
<211> 409
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(409)
<223> n = A,T,C or G

<400> 57
cccttagcgt ggtcgccggcc gaggtactct ttctctcccc tcctctgaat ttaattcttt 60
caacttgcaa tttgcaagga ttacacattt cactgtgatg tatattgtgt tgcaaaaaaa 120
aaaaagtgtc ttgtttaaa attacttggt ttgtgaatcc atcttgctt ttcccccattg 180
gaactagtca ttaaccatc tctgaactgg tagaaaaaca tctgaagagc tagtctatca 240
gcatctgaca gatgaaattt gatggttctc agaaccattt cacccagaca gcctgtttct 300
atcctgttta ataaattaat ttttgggggtt ccttaccat gccatagcaa aacccctgc 360
ttccaaattt ttgtcaacaa taaaaagtc tgntggacct tggaaagtt 409

<210> 58
<211> 553
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(553)
<223> n = A,T,C or G

<400> 58
tttccnntt tttttttttt tttttttttt tccccnccaa gcttatcta gncttagact 60
tttaaaaaaa gtttgggggc agattctgaa ttggctaaaa gacatgcatt tttaaaaacta 120
gcaactctta tttcttcct taaaaatac atgcattaa atcccaaatac ctattnaaag 180

acctgacagc ttgagaaggc cactactgca tttataggac cttctggtgg ttctgctgtt 240
acgtttgaag tctgacaatc cttgagaatc tttgcattgca gaggaggnaa gaggtattgg 300
atttcacag aggaagaaca cagcgacaa tgaaggccca ggcttaactga gctgnccagt 360
ggagggctca tgggnnnnac atggaaaaga aggagccctt ggccctgggg agcccagtcc 420
actgagcaag caagggactg agtgagccctt ttgcaggaaa gggctaanaa aaaggnaaac 480
cattctaaaa cacancaaga aactggccaa atgctttggg aactgggtt attggccnat 540
aatggggccc caa 553

<210> 59
<211> 579
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(579)
<223> n = A,T,C or G

<400> 59
cccttcgag cggccgcccc ggcaggtact tttttttttt tttttntttt ttttccgcct 60
ccccaaagct ttattttntt tgantttta aaaaagtttggggcanatt ctgaattggc 120
taaaanacat gcatttttaa aacttagcaac tnttattttt ttccctttaaa aatacatagc 180
attaaatccc aaatcctatt taaagacccg acagntgan aaggtcacta ctgcatttat 240
agaccttctt ggnngttctg ctgttacgtt tgaagtctga caatccttga naatnttgc 300
atgcanagga ggtaanaggt attggatttt cacagaggaa gaacacagcg canaatgaag 360
ggccaggctt actgagctgt ccagtggagg gctcatgggt gggacatggaa aanaaaggca 420
gcttaggccc tggggagccc agtccactga gcaagcaagg gactgantga gcctttgca 480
ggaaanggct aanaaaaagg aaaaccatc taaaacccaa cangaaactg tccaaatgct 540
ttgggaactg ggtttattgc ctataaagggg tccccaaaaa 579

<210> 60
<211> 71
<212> DNA
<213> Homo sapiens

<400> 60
ctcgagccgg ctcgccagtg tcatggata tctgcagaat tcgccttag cgctggtcgc 60
ggcccgatgt a 71

<210> 61
<211> 552
<212> DNA
<213> Homo sapiens

<400> 61
cccttagcgt ggtcgccc gaggtaccta gaaaacagaa acttgagtag acatggtaat 60
gaccagaaaa ggctatctt atacatttct tttgtacgc ttcaaattca tgtcacctaa 120
aagttgtgaa gtgcacaaaa caaatctact taactgaaaa ttattttcaa tgaatggat 180
gtttagaact ctgtgagggt tttaagggt tttaaggtc tttaaggtc gcaaattcta atgaggctt 240
tttaagttgg caatttaaac tcatacaaga aataaaaact caccagtgtg gctgggcaga 300
atatatatat tttctcaaat attgtttgtt tggttttcc ctgcactgtt tccatggtcc 360
catgtatgaaa ctgttatatt gctgatataat ttatttggaa atgtggccca acttccttcc 420
cactcaacat atggattgggt agttaaaat aattcccttc tattaagcaa atgtgtggct 480
aaggcacatt taaatagccc attaaaccaa tggagatgac aatgtgttac cctcagagaa 540
agcttaattt tt 552

<210> 62
<211> 463
<212> DNA
<213> Homo sapiens

<400> 62
cccttcgag cggccgccc ggcaggtact atatggacac cagcatggag cagaaaatga 60
ggcagcagt gtccaatctc attccaggtg agaagttgca cagtgtccaa taggtgcata 120
catctccta gtaagtagtt gtgattaaca atgaaaataga aatgaaaaat atatttttt 180
atttatgtgt attatatttt tcaggcagct aataagttgg taggacataa tatttaattc 240
gttggggacc taattattta taaattgaat gtttagatat ttcttttggc ctaagccacc 300
atgaaaaat cactgaggcg ctaaggaaa catgaactaa gaagcccttc tgagtctctg 360
tttctcaac tgtaagatga agaaacctgc tccaccttcc tcttgcgatt gtcgaacggc 420
agttgagata ctgcgccaga atggaccctt attgatggcc tac 463

<210> 63

<211> 663

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(663)

<223> n = A,T,C or G

<400> 63

cccttcgag cggccgccc ggcaggtacc tcatttagtaa ttgtttgtt gttcatttt 60
tttctaattgt ctccccctcta ccagctcacc tgagataaca gaatgaaaat ggaaggacag 120
ccagatttct ccttgcctct ctgctcattc tctctgaagt ctaggttacc cattttgggg 180
accattata ggcaataaac acagttccca aagcattttgg acagtttctt gttgtgttt 240
agaatggttt tcctttttct tagcctttc ctgc当地agg ctcactcagt cccttgcttg 300
ctcaagtggc ctgggctccc cagggcttag gctgccttct tttccatgtc caccatgag 360
ccctccactg gacaagctca gtaagcctgg cccttcattc tgcgctngt tcttctctgt 420
gaaaatccaa tacctttcac cttctctgca tgcaaagatt ctcaaggatt gcagacttca 480
aacgtAACAG cagaaccacc agaaggcttcc ataaatgcag tagtgaccctt ttcaagctgt 540
caggccttta aatangaatt tggaaattta atgctatgtt ttttnaaag gaaagaaaata 600
agaagttgct tagntttaa aatgcattgtc tttanccca attaaaatt tgcccccaaa 660
ctt 663

<210> 64

<211> 269

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(269)

<223> n = A,T,C or G

<400> 64

ngatatatctgc anaattcgcc ctttcgagcg gccggccggg caggtacaac ttttaataa 60
ggaaatatga tagcttngca tgggtgggtgtg cacctatagc ccccaactgccc tggaaagctg 120
gggtgggaga atcgctttag tccaggagtt tgagttaca gtgatccacg atcnngccac 180
tacactccag cctggcanc agagcaagac cctgtntcaa agcataaaaat ggaatnacat 240
atcaaattgaa acangaaaa tgaagctga 269

<210> 65

<211> 194

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(194)

<223> n = A,T,C or G

<400> 65
cccttcgag cggccgccc ggcaggtacc tttttttt tttttttt tccgtctccc 60
caaagctta tctgtcttga cttttaaaa aagtnggg gcanattntg aattggntaa 120
aagacatgca tttttaaaac tagcaactct tatttcttc cttaaaaaat acataggcatt 180
aaatccaaa tcct 194

<210> 66
<211> 69
<212> DNA
<213> Homo sapiens

<400> 66
gcatgctcga gccggccgcc agtgtgatgg gatatctgca gaattcgccc ttgcagcgg 60
cccgccccgg 69

<210> 67
<211> 509
<212> DNA
<213> Homo sapiens

<400> 67
cccttcgag cggccgccc ggcaggtaca agctatctt tgctccaaaa cagttctgaa 60
ggtttattt atatttatac ttatcccgag ggaccaacag caggcatacc tttgcaggc 120
cttcttgcaag aaagacacag agccgtaaag gcaaaaataa aattgcaata aagtatatgg 180
tattggggc agggagaacc agaaaccctc aaagagaacc aattttagc acgttcttt 240
ttaaggctct acccctgttag aagtaagaaa ctgcctgcc ttttagcca tatgagagtt 300
tcctccagag ccattttcca aagtagcaga ctggccaag ttgccaatg ccaaataagt 360
gagtttggaaag ttcgtttgtc tcaaacacac tgcacttaga aaccagactt gaaataatcg 420
aagccccaca gaaaagcttc atgaaacgaa gtgttacttt cctagagaat aagaaagtca 480
caagattttag gagtctgttc taaagttct 509

<210> 68
<211> 716
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(716)
<223> n = A,T,C or G

<400> 68
cccttcgag cggccgccc ggcaggtacc tcatttagtaa ttgtttgtt gttcatttt 60
tttctaattgt ctccccctcta ccagctcacc tgagataaca gaatgaaaat ggaaggacag 120
ccagatttct cctttgctct ctgatcatc tctctgaagt ctaggttacc cattttgggg 180
accattata ggcataaaac acagttccca aagcattttgg acagtttctt gttgtgttt 240
agaatggttt tcctttttct tagcctttc ctgc当地agg ctcactcactt ccottgctt 300
ctcactcactt ccottgctt ccottgctt ttccatgtcc acccatgagc 360
cctccactgg acaagctcag taagcctggc ctttattct gcgc当地gtt cttcactt 420
gaaaatccaa taccttttac ctccctgtca tgcaagatt ctcaaggact ggccacttc 480
aaacgttaaca gcagaaccac cagaaaggcc tataatgca gtatgttact tctcaagctg 540
cangtcttta aataggattt gggattaat gctatgtant tttaaangga aagaaataag 600
aaggtagttag tttaaaaat gcatgtttt aagccaattt aaaaattggc cccaaactttt 660
tttaaaaatg caagacaaga taaagcnntt ggggagaacg gaaaaaaaaaaa aaaaaaa 716

<210> 69
<211> 477
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<222> (1)...(477)
<223> n = A,T,C or G

<400> 69
cccttagcgt ggtcgccggcc gaggtactca tgtatTTTT ttttccagat ctctttcccc 60
aagtggctat tgtaagaga ttctgctgcg tggatgca gttatacaca taaaaggcaga 120
tctggagtct gaagtagcta taaaggcagct ataaaaacaga aatacatgca tagctgcaga 180
aaccatgata ggttagaggac ttttctttt gttttgtttt gttttgtttt 240
tggttttaca gagaagagat ttttattcaa agaaaaaaat tccagtgaat tggcacaaa 300
tgctggtttt tacaccatcc taaagaaaaa ctttacaagg ggtgtttgg agtanaaaaa 360
agtttataaa gttgaatct taaattgtta aattaaccat tgagtgtcaa ggntctaaaa 420
gcagaactta ttttgtcaa tgaacataan gaaagactac tgtatagggt tttttt 477

<210> 70
<211> 380
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(380)
<223> n = A,T,C or G

<400> 70
cccttcgag cggccgccc ggcaggtact cagacaaata caacgtgccc atttcgtcag 60
atattgcgcga gaaccaagaa ttttataaga acgcagaagt tagaccacca tttaccgtat 120
gcattttaa ttaaggcagg ccattctcgat atctccagaa aagcagctaa cactaatga 180
gatctataac tggttcacac gaatgttgc ttacttccga cgcaacgcgg ccacgtggaa 240
gaatgcagtgcgtcataatc tttagtcttca caagtgtttt gtggcgagta gaaaacgtta 300
aaggggggcag tatgggacag tggattgaag tangaattcc aaaaacgaaag ggcccaaaaa 360
ggatcagtgg gtaacccttt 380

<210> 71
<211> 377
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(377)
<223> n = A,T,C or G

<400> 71
ntnttagcgt ggtcgccggcc gaggtacttt ttgcTTTanc agatagatag ggcattcaat 60
acaactgaaa caacctgata acaaattaaat ttatTTTTc aataaaaaagg aatgctctgg 120
tttttaact ggctcTTGA ggaagccaga agatggcattc tgctcttAA acaggcttct 180
cttatctgat ttgagacaca aatccaccaa gnattttc ttacagtggaa agtagggcacc 240
accCCTcaga tcacgaggcc ctaggnnaag aagctgtgg gaaatcagcc ctgtgatgtt 300
gtgggtgggt gggccagcac cttagaagaca catgtnggt tggcaacat aaaatcccct 360
tcaagcggac tcagtgg 377

<210> 72
<211> 379
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(379)
<223> n = A,T,C or G

<400> 72
cccttagcgt ggtcgccggcc gaggtactct ggtcatcttc gttcgttgg tcgtgcaagg 60
tgttaactat tttcaacttcc catatcacaa agttagtcca caggaggagc tggatct 120
tgccattat gaggactgtt tggcttcca ggtaggctgg atcctcttag attaggaggg 180
tctcagtaaa gaacaagatc aatgcanta accatccagg ctaccaagat cattgttaac 240
actgatgccat ttatcaccag agggtccccc taaattcctt gaagacactc tggatctgtt 300
gcangtanga ctggactnc cgtaacagat tgatcaagnt cttctcantt gcatgttcat 360
ggagagcaaa cacattcac 379

<210> 73
<211> 403
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(403)
<223> n = A,T,C or G

<400> 73
cccttagcgt ggtcgccggcc gaggtcgccggcc gaggtacttt atttcaaaaa cactcatatg 60
ttgcaaaaaaa cacatagaaa aataaagttt ggtggaggtg ctgactaaac ttcaagtac 120
agacttttat gtgacagatt ggagcaggggt ttgttatgca tgtagagaac ccaaactaat 180
ttattaaaca ggattagaaa caggctgtct gggtgaaatg gttctgagaa ccatccaatt 240
cacctgtcag atgctgatag actagcttt tcagatgttt ttttctacca gttcagaaga 300
tngggtttaa atngacctag ttccaatggg ggaaaaaaagc aagaatggga tttcacaaaa 360
cccaaggtta tttttaaacc aaaagacccc ttttttttg gca 403

<210> 74
<211> 378
<212> DNA
<213> Homo sapiens

<400> 74
cccttagcgt ggtcgccggcc gaggtaccat gctgacttct tggatcttt taaggcctaa 60
tttcccttc ctttagatta ctgtatgtt ttccagctaa ttcttattt gaaacgagtt 120
gaaacagctg aaaactgggt attattgaag gcaagcagc ctcacgtcag ttttttatca 180
gctcatggaa gaaatttttt tttttttttt tttaattat tagaaatgt gctggccac 240
gtggctcatg cctataatcc cagcactggaa ggaggccgag gatctccctt ctggtgatc 300
acttgaggc aggatataag agaccatcct ggccaacatg atgaaaccct gtctctacta 360
aaaataaaaa aagtatgt 378

<210> 75
<211> 385
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(385)
<223> n = A,T,C or G

<400> 75
cccttagcgt ggtcgccggcc gaggtacaga atttattatg aaatagctt atggcaagtg 60
gtaattttaga agaattaagt tatcagatag gagatataatt aaaatattt aaaaattggat 120
atattcttga agcccttttta cacaagtaat ttctataatt tgattgtat gaaagtataa 180
tataccttgt tactattatc aggattaatt tttgaaatgtt gattccctt atcaagccaa 240
ggtaatgtt gctttatagg aaattaatca ggtatgtttaa cactagagct cattagccca 300
acctgtatgtt agcacaaaaaaa taaatcatc tctgataat nccntattaa aatantattt 360
tttaattcat acctttttaa aataa 385

<210> 76
<211> 691
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(691)
<223> n = A,T,C or G

<400> 76
cccttagcgt ggtcgccggcc gaggtacttt tttttttttt tttttttttt ccgtctcccc 60
aaagcttat ctgtcttgac ttttaaaaaa agttggggg cagattctga attggctaaa 120
agacatgcat ttttaaaact agcaactttt atttctttcc tttaaaaata catagcatta 180
aatcccaaat cctattaaa gacctgacag cttgagaagg tcactactgc atttatagg 240
ccttctgggt gttctgctgt tacgtttgaa gtctgacaat ccttganat cttgcattgc 300
agaggaggtt agaggattttt gattttcaca gaggaagaac acancgcaaa atgaaggggcc 360
aggcttactg agctgtccag tggagggctc atgggtggga catggaaaag aaggcagcct 420
aggccctggg gagcccantc cactgagcaaa gcaaggact gagtgagcct ttnccaggaaa 480
aggctaanaa aaagggaaaac cattttaaa cacaacaaga aacttgtcca aatgctttgg 540
gaaccngtt tattgcctat aatgggtccc cccaaatggg taacctaaac tttaaaaagan 600
aatgaaccn anagnnaag gaaaaatctg gcttgcctt ccattttcat tctnttatnt 660
taagngacc ttttnangg ggancctttt n 691

<210> 77
<211> 697
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(697)
<223> n = A,T,C or G

<400> 77
cccttagcgt ggtcgccggcc gaggtacttt tttttttttt ttttttttcc gtctcccaa 60
agctttatct gtcttgactt tttaaaaaaag tttgggggca gattctgaat tggctaaaag 120
acatgcattt tttaaaactag caactcttat ttcttcctt taaaataca tagcattaaa 180
tcccaaatcc tattttaaaaga cctgacagt tgagaaggctc actactgcattt ttagggacc 240
ttctgggtgt tctgctgtt cgtttgaagt ctgacaatcc ttgagaatct ttgcattgcag 300
aggaggtaag aggtatttggaa ttttcacaga ggaagaacac agcgcaggat gaaggggccag 360
gcttactgag ctgtccagtg gagggctcat gggggggaca tggaaaagaa aggcagccta 420
aggccctgggg agcccaatcc gctgagcaag caaggactg antgagcctt ttgcaggaaa 480
aggcttanaa aaangggaaaac cattttaaa aacaacaaga aacttttcca aatgcttng 540
gaaccgggggt tattggccat aaatgggncc cccaaatggg taanccaaac tttaaaaaan 600
atganccgaa ancaaagggn aaaatctggg tggcccttcc atttnatnt ngtannncaa 660
aggAACCTG gnnnaagggg ggnccctttt aaaaaaa 697

<210> 78
<211> 582
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(582)
<223> n = A,T,C or G

<400> 78
cccttagcgt ggtcgccggcc cgaggtactt tttttttttt tttttttttt ttccgcctc 60

cccaaagctt tatctgtctt gacttttaa aaaagttgg gggcagattc tgaattggct 120
 aaaagacatg cattttaaa actagcagct ctattttctt tcctttaaaa atacatagca 180
 ttaaatccca aatccatattt aaagacctga cagcttgaga aggtcactac tgcattata 240
 ggaccttctg gtggctctgc tggtacgtt gaagtctgac aatccttgag aatcttgca 300
 tgcagaggag gtaagaggta ttggatttc acagaggaag aacacagcgc anaatgaagg 360
 gccaggctt ctgagctntc cagtggaggg ctcatgggtg ggacatggaa aanaaggcag 420
 cctangccct ggggagccca ntccactgag caagcaaggg actgantgag cctttgcag 480
 gaaaaggctt aaaaaaagga aaaccattct aaaacacaac aaggaaactg tccaaatgct 540
 ttgggaaactg gtttatttg cctattatgg ggtccccaaa aa 582

<210> 79

<211> 580

<212> DNA

<213> Homo sapiens

<400> 79

cccttagcgt ggtcgccggcc gaggtactac aaaaacagaa taattttgaa gttttagaat 60
 aaatgtataa tatttactat aattctaaat gtttaatgc ttttcttaaaa atgcaaaact 120
 atgatgtta gttgctttat tttacctcta tgtgattatt tttcttaatt gtttattttt 180
 ataatcatta ttttctgaa ccattctctt ggcctcagaa gtaggactga attctactat 240
 tgcttaggtgt gagaaggatgg tggtgagaac cttagagcag tggagatttg ctacctggtc 300
 tgggttttga gaagtgcggc tttagaaatgtt aaaaatgtt agaaaagata ctcagtctta 360
 atccatatgca aaaaaaaaaat caagtaattt ttttctatg aggaaaataa ccatgagctg 420
 tatcatgcta cttagctttt atgttaatat ttcttatgtc tcctcttattt agagtattt 480
 aaatcatatt taaatatgaa tctattcatg ctaacattat tttcaaaaac atacatggaa 540
 atttaaccca attgtctcat ataaggatttt atttgaattt 580

<210> 80

<211> 596

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(596)

<223> n = A,T,C or G

<400> 80

cccttcggc ggcggccccc ggcaggtaacc tgggtctca gggttgtct gggcctgatc 60
 atccactcaag atctgttaagg aggatttgca ggatccattt agaaagatcc tcccttactt 120
 ccacaagcat ggccttggc tcttaataac ctgtgctggg ttttgtat tatagaaaaca 180
 acaggaacca aaactcatta atgtttagct acaaaccaga gggaaagtttc tttctcaaaa 240
 cagggtcaag gcctagaaaa atctagttt ctgaaatcgc tagccagcaa cagcaactgag 300
 atggccatcc cagaaacaag gccaacacag aagcacccat aaaggccctt ggagggttggg 360
 acaaagagat ccttgcgtgc cttacagacc ccctgacttc caaggagctc ccctcttacc 420
 cagcctggcc tgccttctcc acagggttagc tgatgttc catcatctt aatgggtttg 480
 cccaaagcac tcaantgctc ctgccatccc tgtccatctt caacatgaaa aggagaggtt 540
 agcacttcaa cctggcgac tgagcaagan ttcatcttaa aaaaaaaaaa aaaattt 596

<210> 81

<211> 209

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(209)

<223> n = A,T,C or G

<400> 81

cccttagcgt ggtcgccggcc gcccggcag gtactttttt tttttttttt tttttttacc 60

ggctccccaa agcttatct gtcttgactt tttaaaaaag ttgggggca nattctgaat 120
tggctaaaag acatgcattt taaaactag caactcttat ttcttcctt taaaataaca 180
tagcattaaa tcccaaatcc tatttaaag 209

<210> 82
<211> 46
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(46)
<223> n = A,T,C or G

<400> 82
atctgcagaa ttcgcctta ncgtggtcgc ggccgaggta cttttt 46

<210> 83
<211> 601
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(601)
<223> n = A,T,C or G

<400> 83
cccttagcgt ggtcgccggcc cgaggnacca tgatatcatg tattctgctt ggacattntg 60
ggaaagggggg accagcttgt tggccaattt atcctacagg tcttggacgg nggacacct 120
tcaaaagaag atctgttaag ggcaagcagc acaagtggcc atggaaaaaag aaaaactcta 180
cannatattt ccgagatca aggacaagtc caaaacgaga tcctctcatt ctctgtctc 240
ggaaaaaaccc aaaacttgtt tgatgcagaa tacaccaaaa accagcctgg aaatctatga 300
aagatcctta ggaaangcca gctgctaagg atgtccatct tggatcac tgcaaataca 360
agtatctgtt taatttcga ggcgttaactg caagtttcc ggttaaacac ctttcctgt 420
gtggctcaact tggttccat gttnggtgat gaagtggcta gaattcttct atccacagct 480
tgaagccntg ggttcaactat attccaagtc aaaacagatc tcttcaatgt ccaanagctg 540
ttacaatttt gaaaaaccaa atgatgatgt aacttcaaga aaattgctt gaaaggggaa 600
g 601

<210> 84
<211> 570
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(570)
<223> n = A,T,C or G

<400> 84
cccttagcgt ggtcgccggcc gaggtaccac aaaaacagaa taattttgaa gttttagaat 60
aaatgtataa tatttactat aattctaaat gtttaaatgc ttttctaaaa atgcaaaact 120
atgatgtta gttgctttat tttacctcta tgtgattatt tttcttaatt gttatTTT 180
ataatcatta ttttctgaa ccattcttc ggcctcagaa gtggactga attctactat 240
tgcttaggtgt gagaaagtgg tggtgagaac cttagagcag tggagatttgc tttctgtc 300
tgtgtttga gaagtcccc tttagaaagtt aaaagaatgt agaaaagatc tcagtctaa 360
tcctatgcaa aaaaaaaaaat caagtaattt ttttctatg aggaaaataa ccatgagctg 420
tacatgcta cttagctttt atgtaataat ttcttatgnc tcctctatata agaagtattt 480
aaaatcatat ttaaatatga atctattcat gctaacatta ttttcaaaac atacctggaa 540
attaacccag aatggctaca tataagggtt 570

<210> 85
<211> 724
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(724)
<223> n = A,T,C or G

<400> 85
ccctttcgag cggccgccccg ggcaggtacc tcattagtaa ttgtttgtt gcttcatttt 60
tttctaattgt ctcccctcta ccagctcacc tgagataaca gaatgaaaat ggaaggacag 120
ccagattttct cctttgctct ctgctcattc tctctgaagt ctaggttacc cattttgggg 180
acccattata ggcaataaaac acagttccca aagcatttg aacagtttctt gttgtgtttt 240
agaatggttt tccttttct tagcttttc ctgcaaaagg ctcactcaag tcccttgctt 300
gctcagtgga ctgggctccc cagggcctag gctgccttct ttccatgtc ccacccatga 360
gccctccact ggacagctca gtaagcctga cccttcattc tgcgctgtgt tcttcctctg 420
tgaaaaatcca atacctctta cctcctctgc atgcaaagat tctcaaggat tgcagactt 480
caaacngac agcagaacca ccagaaggc ctataaatgc agtaagtgc ctctcaagc 540
tgtcaggtct ttaaatagga ttgggattt aatgctatgt atttttaaag gaaagaaaata 600
agaagttgct agttttaaaa atgcattgtct tttagccat ttagaatctg gccccaaact 660
tttttaaaa gtcaaagaca gataaaagctt tngggagacg gaaaaaaaaaaa aaaaaaaaaa 720
aagt 724

<210> 86
<211> 51
<212> DNA
<213> Homo sapiens

<400> 86
cgccagtgatggatatc tgcagaattc gcccttcgc ggccgccccgg g 51

<210> 87
<211> 510
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(510)
<223> n = A,T,C or G

<400> 87
ccctttcgag cggccgccccg ggcaggtaca gtcatccac tacctggcta tttcattact 60
tgggtctcta gacaagctcc aagaactgac tggatcttgg cttgctctgt ttctgtcatt 120
gctaataataa tatggaaaac attgctgaaa agaacagaga tggccatgga tatggctagg 180
ttaggtattc atatccaaat atctgaactc taacctaattg tggatatgat tctgttagcat 240
tatattaaaaa gctatgatga tgcaatgcag gaaataacct ttcatttc ccccttagagg 300
atcacgacag gtgcattcaa tgcctgcctt atctatggaa caagtagtgt gattctcaa 360
gtgagaagtg aaagcccttg ggggatttga gtcangaagg ggaacatggc taaattgcct 420
ggaaaactctg ccaacaagtc tgcgggtaga ttctacttgt ctctggata aaaaaatctg 480
tgctcaatga aacttattgt gtttggaaaaa 510

<210> 88
<211> 59
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<222> (1)...(59)
<223> n = A,T,C or G

<400> 88
tgctcgagcc ggcccgccag tgcganggat atcngcacaa ttccccctt caagcggcc 59

<210> 89
<211> 255
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(255)
<223> n = A,T,C or G

<400> 89
ccgcgggtggc ggccgaggta ccacaagata ttatgcattgc tccaatcgag caaaaatgtcc 60
atcataacaa atataaaatg tttccagaaa gtatcatagc gtggtttccc attcctgtta 120
tgcttaggc tccaaaggctt gtgagttat gctgttatta catcccgatc tgtttgtctc 180
atcttgtaga taacttctgg caagaaaagaa cagaccacac tattattata cagttgagga 240
agctctagaa ctagn 255

<210> 90
<211> 683
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(683)
<223> n = A,T,C or G

<400> 90
ccgcgggtggc ggccgaggta cctcattagt aattgttttgc ttgtttcatt tttttctaat 60
gtctcccttc taccagctca cctgagataa cagaatgaaa atgaaaggac agccagattt 120
ctcccttgc tctctgtcat tctctctgaa gtcttaggtt cccattttgg ggacccattt 180
taggcaataa acacagttcc caaagcattt ggacagttt tcgttgggtt ttagaatgg 240
tttcctttt cttagcctt tcctgcaaaa ggctcaactca gtcccttgct tgctcaagt 300
gactgggctc cccagggctt aggctgcctt ctttccatg tcccaccat gagccctcca 360
ctggacagct cagtaagcct ggcccttcat tctgcgtgt gttttcctc tgtaaaaatc 420
caataccctt tacntcctt gcatgcaaaat attctcaagg attgtcagac ttcaaaaacgt 480
nacagcagaa ccaccagaaa ggtcctataa aatgcagnat gtggacccctt ttcaagctgt 540
cagggtctt taaataggat ttgggggata taatggctat tgtagttta aaaaggaaaa 600
gnaaaatnaag agtttgcttag attcttaaaa aangccatgg tctttttanc caatttnaaa 660
aatnttgccc cccaaactttt ttt 683

<210> 91
<211> 74
<212> DNA
<213> Homo sapiens

<400> 91
tcgagcggcc cgcccgccca ggtacttttt tttttttttt tttgggattt ttttaggtgt 60
gggtgttgag ctgg 74

<210> 92
<211> 520
<212> DNA
<213> Homo sapiens

<400> 92
cgaggtacgt tcttctttcc cagtttctct acccttagct tatcctcacc ctcattttgc 60
cctgctggct gctcaaacta tgcaacagat tcggcatcct cgcttaccca tggcccagtt 120
tggaggaacc ttctcacctt ctcctaacac atggggacca ttcccagtga gacctgtgaa 180
tcctggcaac acaaataagct ctccaaagca taataacaca agccgtctac ctaaccagaa 240
cgggactgtt ttaccctcag agtctgctgg actagctact gccagtgtc ctatcactgt 300
ctcttctgt a gttgctgcca gtcagcaact gtgtgtcact aatacccgaa ctcccttcattc 360
agttagaaag cagttgtttg cctgtgtgcc taagacaagt cctccagcaa cagtgatttc 420
ttctgtgaca agcacttgta gttccctgccc ttctgtctcc tctgcaccta tcactagcgg 480
gcaagctccc accacatttc tacctgcaag tacctgcccc 520

<210> 93
<211> 382
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(382)
<223> n = A,T,C or G

<400> 93
ccgcgggtggc ggccgccccgg gcaggtacccg atacagaaga agctgcgttt tgaagacacc 60
ctggagttt tagggtttga tgcgaagatg gctgaggaat ctccttcctc ctcccttcata 120
tcttccacca ctgctgcaac atctcagcag cagcaactta aaaataagag tatattaatc 180
tcttctgtgg ctgcgtgca tcatgcaaac ggcctagcca aatcttctac caccgtctct 240
acttttgcta acagcaaacc tggctctgct aagaagttt tagtcaagaa cttaaagat 300
aaggctaaat taccagaaaa ctacacagat gaaacctggc aaaaactgaa agaagcagt 360
gaagctattt anaatagtac ct 382

<210> 94
<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(396)
<223> n = A,T,C or G

<400> 94
ccgcgggtggc ggccgaggc tatatggacc acnaacatgg gagcagaaaa atgagggcag 60
cagtgtccaa tctcattcca ggtgagaagt tgcacagtgt ccaataggtg catacatctc 120
cttagtaagt agttgtgatt aacaatgaaa tagaaatgaa aaatatattt ttttatttat 180
gtgtattata ttttcaagc agctaataag ttggtaggac ataataatattt attcggttggg 240
gacctaatta tttataaatt gaatggtag atatttctt tggcctaagc caccatgaaa 300
aaatcactga ggcgctaagg gaaacattga actaagaagc cttctgagt ctctgtttc 360
tcaactgtaa gatgaagaaa cctgctccac cttcct 396

<210> 95
<211> 379
<212> DNA
<213> Homo sapiens

<400> 95
cgcccggggc aggtacctta gtgaggctca aaaggattct tttgggtcta ttttacgcct 60
tatcttgaa attcaccact cgggtgagaa aggtgacatt gtagtcttc tggcctgtga 120
acaagatatt gagaaagtct gtgaaactgt ctatcaagga tctaaccctaa acccagatct 180
tggagaactg gtgggttgc ctttgtatcc aaaagagaaa tgttcattgt tcaagccact 240
cgatgaaaca gaaaaagat gccaagttt tcaaagaaga gtgggtttaa ctactagctc 300

tggagagttt ttgatctgga gcaactcagt cagattgtt atcgatgtgg gtgtggaaaa 360
aaaaaaagggt gtcctcgcc 379

<210> 96
<211> 779
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(779)
<223> n = A,T,C or G

<400> 96
cgaggtacct gtatgaggc tcccagcccc aaggactagg ccaagccctc ttgtgtccat 60
ctccaatgag aaggaatcct gccctcacct caccctttc caacttgccc aggaaagtgg 120
agttcccttc ttcccttcc tcttgcaggc catccatgac tttagagaac agacacaagt 180
gtatccagct gtccacgggt ggagctaccc gttgggctta tgagtgaccc ggagtgacag 240
ctgagtcacc ctgggtaagt tctcagagtg gtcaggatgg ctgacccctgc agaagatacc 300
caaggtccaa aagcacgaag gtcctgcggaa agttctgggt gtcggctggc accacgggta 360
cacctataat cgagcacttt gggaggccaa gacaggagga tcgcttgaga ccaagagttt 420
gagcctgcgg tgaagctgtg aatgcaccac ggcactcaag cctggcaatg tagcaagatc 480
ctgtctctac aagaaaattt tttaaaaatg agccaagtgt ggggggtgcatt gcctgttagtt 540
tcragctact tnaggacact tacntangan ggttggttt aaactgaaaaa gttggaggct 600
tgcataatnanc cttgaatgcc ccantggcct tcaacctggg gcgaaaanaa ccaagacccc 660
atnttaaaaaa aaaaaaaaaant ntntnggtn gnnattgaatt gggaaaaaaa aaaagcttgg 720
agcttttgc cttntngccn aggnancat tgnaatttgg gattttngaa nggaatggg 779

<210> 97
<211> 535
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(535)
<223> n = A,T,C or G

<400> 97
cccttagcgt ggtcgccggcc gaggtacccg ttgctgctgc catgtgtgtg cttaaaaacag 60
ggttcctttt tgttagcatca gaatttggaa accattactt atatcaaatt gcacatctt 120
gagatgatga tgaagaacct gagttttcat cagccatgcc tcttggaaagaa ggagacacat 180
tccttttca gccaagacca cttaaaaacc ttgtgctgg ttagtggatgg gacagccct 240
ctccccattct gttttggccat atagctgatc tggccaatga agatactcca cagttgtatg 300
tggcctgtgg taggggaccc cgatcatctc tgagagtcc aagacatggta ctggaggtgt 360
cagaaatggc tggttctgag ctacctggta accccaacgc tgcgtggaca gtgcgtcgac 420
acattgaaga tgagtttgat gcctacatca ttgtgtctt cgtgaatgcc accctagtgt 480
tggccattgg agaaactgta gaagaagtga ctgactctng gttcctgggg accac 535

<210> 98
<211> 231
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(231)
<223> n = A,T,C or G

<400> 98
aggtaactctc gtttcagctg ggctcttatg gccaaccgct cggcttgcgc ccggccgggtt 60

tccggantat atgttgttatt cggctggtc gagggtctca ggcagagtgc gcaggctcga 120
cggcttatac ttggaaacg acatcttgc gaaccaggc gcaattgcgc ctgcgcgatt 180
ctgaggccct ttgtctatgc tgaccttcag cttccccgc gtacctgccc g 231

<210> 99
<211> 229
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(229)
<223> n = A,T,C or G

<400> 99
ccgcgggtggc ggccgccccgg ncaggtacgc gggctggc gcggggact gaaagccgga 60
aggggcaaga cgggctcagt tcgtcatggg gctgtttgga aagaccagg agaagccgcc 120
caaagaactg gtcaatgagt ggtcattgaa ggtaagaaaa ggaaatgaga gttgttgaca 180
ggcaaataag ggatatccan gaaaaaaaaaaa aaaaaaaaaa nagtacctt 229

<210> 100
<211> 513
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(513)
<223> n = A,T,C or G

<400> 100
cgaattggag ctccacccgc ggtggcgccc cgcccgccca ggtactttt gcttagcag 60
atagataggg catccaatac aactgaaaca acctgataac aaattaattt tattttcaa 120
taaaaaaggaa tgctctggtt ttttaactgg ctccctgagg aagccagaag atgcacatctg 180
ctcttaaac aggctctct tatctgattt gagacacaaa tccaccaaga ttctttctta 240
cagtggaaat aggccaccacc cctcagatca cgaggcccct aggaagaagc ctgtggaaat 300
cagcctgtga tgtgtggtgg tggccagca cctagaanac acatgggtt tgcacata 360
aatcccttca gcggactcag tggaggatg agaattctga aagttcatgc acattttattt 420
gagtaggtaa tataaaaatg cttttcttt ttcattttgtt acaagtgcac gctttgantg 480
cccaccatnt tcagaagtca aaattacaaa agg 513

<210> 101
<211> 658
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(658)
<223> n = A,T,C or G

<400> 101
ccgcgggtggc ggccgccccgg gcaggtacgc gggcgggat gggagccacg cctgaactag 60
agttcaggct ggatacatgt gctcacctgc tgctcttgc ttcctaagag acagagagtg 120
gggcagatgg aggagaagaa agtgaggaat gagtagcata gcattctgcc aaaaggccc 180
cagattctta atttagcaaa ctaagaagcc caattaaaaa gcattgtggc taaagtctaa 240
cgctcctctc ttggtcagat aacaaaagcc ctccctgtt gatctttga aataaaacgt 300
gcaagttatc caggctcgta acctgcacatgc tgccacccctt aatcccaagg agtatctgca 360
cctgnaatan ctctccaccc ctctctgcct ccttactttc tgcacanat nacttcctgg 420
gttaacttcc ttctttccat ccacccaccc actgaaatct cttccaaac atttttccat 480
tttccccacaa atngncttg attaactntc ctctctccat gcctncaaanc ctccaaattt 540

ttggggaaag ctgtacccctc anccnctcta aaactaatgn atccccccgn ctncaagaat 600
tcnatataa acttatcaat accntcacct caaagggggg cccantaccc aacttttn 658